

Date: Wed, 23 Feb 94 04:30:32 PST
From: Ham-Space Mailing List and Newsgroup <ham-space@ucsd.edu>
Errors-To: Ham-Space-Errors@UCSD.Edu
Reply-To: Ham-Space@UCSD.Edu
Precedence: Bulk
Subject: Ham-Space Digest V94 #37
To: Ham-Space

Ham-Space Digest Wed, 23 Feb 94 Volume 94 : Issue 37

Today's Topics:

Daily IPS Report - 20 Feb 94
Daily IPS Report - 21 Feb 94
Satellite progs on World

Send Replies or notes for publication to: <Ham-Space@UCSD.Edu>
Send subscription requests to: <Ham-Space-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Space Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-space".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 21 Feb 94 06:19:21 GMT
From: agate!ihnp4.ucsd.edu!munnari.oz.au!newshost.anu.edu.au!sserve!usage!metro!
news.ci.com.au!eram!dave@ames.arpa
Subject: Daily IPS Report - 20 Feb 94
To: ham-space@ucsd.edu

IPS RADIO AND SPACE SERVICES AUSTRALIA
Daily Solar And Geophysical Report
Issued at 2330 UT 19 February 1994
Summary for 19 February and Forecast up to 22 February
IPS Warning 06 was issued on 17 Feb and is still current.

1A. SOLAR SUMMARY
Activity: very low

Flares: none.

Observed 10.7 cm flux/Equivalent Sunspot Number : 108/058

1B. SOLAR FORECAST

	20 February	21 February	22 February
Activity	Low	Low	Low
Fadeouts	None expected	None expected	None expected

Forecast 10.7 cm flux/Equivalent Sunspot Number : 110/060

1C. SOLAR COMMENT

None.

2A. MAGNETIC SUMMARY

Geomagnetic field at Learmonth : unsettled

Estimated Indices : A	K	Observed A Index 18 February
Learmonth	12 2232 3243	
Fredericksburg	16	07
Planetary	18	07

2B. MAGNETIC FORECAST

DATE	Ap	CONDITIONS
20 Feb	16	Unsettled to active.
21 Feb	18	Unsettled to active.
22 Feb	16	Unsettled to active.

2C. MAGNETIC COMMENT

None.

3A. GLOBAL HF PROPAGATION SUMMARY

	LATITUDE BAND		
DATE	LOW	MIDDLE	HIGH
19 Feb	normal	normal	fair-normal

PCA Event : None.

3B. GLOBAL HF PROPAGATION FORECAST

	LATITUDE BAND		
DATE	LOW	MIDDLE	HIGH
20 Feb	normal	fair	poor
21 Feb	normal	fair	poor
22 Feb	normal	fair	poor

3C. GLOBAL HF PROPAGATION COMMENT

NONE.

4A. AUSTRALIAN REGION IONOSPHERIC SUMMARY

MUFs at Sydney were 15 to 30% above predicted monthly values

T index: 81

4B. AUSTRALIAN REGION IONOSPHERIC FORECAST

DATE	T-index	MUFs
20 Feb	20	About 10% below predicted monthly values.
21 Feb	30	Near predicted monthly values.
22 Feb	35	Near predicted monthly values.

Predicted Monthly T Index for February is 30.

4C. AUSTRALIAN REGION COMMENT

None.

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Dave Horsfall (VK2KFU)	VK2KFU @ VK20P.NSW.AUS.OC	PGP 2.3
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Date: 21 Feb 94 06:19:59 GMT

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news.ci.com.au!eram!dave@ames.arpa

Subject: Daily IPS Report - 21 Feb 94

To: ham-space@ucsd.edu

IPS RADIO AND SPACE SERVICES AUSTRALIA

Daily Solar And Geophysical Report

Issued at 2330 UT 20 February 1994

Summary for 20 February and Forecast up to 23 February

IPS Warning 06 was issued on 17 Feb and is current for
interval 20-23 Feb.

1A. SOLAR SUMMARY

Activity: moderate

Flares	Max	Fadeout	Begin	End	Freq.	Sectors
M4/3B	0141UT	Confirmed	0116UT	-	Lower	West Pacific

Observed 10.7 cm flux/Equivalent Sunspot Number : 108/058

1B. SOLAR FORECAST

	21 February	22 February	23 February
Activity	Low	Low	Low
Fadeouts	None expected	None expected	None expected

Forecast 10.7 cm flux/Equivalent Sunspot Number : 110/060

1C. SOLAR COMMENT

A proton event began at 20/0300UT in association with the M4 flare.
A large solar filament located near this region has
dissappeared. Flaring region has simplified and is not expected to
produce further flares.

2A. MAGNETIC SUMMARY

Geomagnetic field at Learmonth : mainly quiet to unsettled.

Estimated Indices :	A	K	Observed A Index 19 February
Learmonth	12	4232 2331	
Fredericksburg	16		23
Planetary	16		17

2B. MAGNETIC FORECAST

DATE	Ap	CONDITIONS
21 Feb	20	Active.
22 Feb	30	Active to minor storm.
23 Feb	30	Active to minor storm.

2C. MAGNETIC COMMENT

A shock is expected in the field from the M4 flare at approx.
21/2000 UT. Further activity is expected from filament disappearance
on the 23rd. Recurrent activity (coronal hole) also expected
Feb 22-24. Minor storm periods are expected during local night.

3A. GLOBAL HF PROPAGATION SUMMARY

DATE	LATITUDE BAND		
	LOW	MIDDLE	HIGH
20 Feb	normal	normal	poor-normal

PCA Event : Began at 0300UT, peaked at 0915UT (74PFU), in progress.

3B. GLOBAL HF PROPAGATION FORECAST

DATE	LATITUDE BAND		
	LOW	MIDDLE	HIGH
21 Feb	normal	fair	poor
22 Feb	fair	poor	poor
23 Feb	fair	poor	poor

3C. GLOBAL HF PROPAGATION COMMENT

High lat comms effected by proton event after 0300 UT on 20th. Event
declining. Further poor conditions expected for high lats over next
four days.

4A. AUSTRALIAN REGION IONOSPHERIC SUMMARY

MUFs at Sydney were near predicted monthly values until this morning
when enhancements of up to 20% were observed.

T index: 51

4B. AUSTRALIAN REGION IONOSPHERIC FORECAST

DATE	T-index	MUFs
21 Feb	60	Near predicted monthly values.
22 Feb	30	10 to 20% below predicted monthly values.
23 Feb	30	10 to 20% below predicted monthly values.

Predicted Monthly T Index for February is 30.

4C. AUSTRALIAN REGION COMMENT

Degraded and depressed HF conditions are expected over the next four days due to recurrent/flare and disappearing filament activity.

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Dave Horsfall (VK2KFU)	VK2KFU @ VK20P.NSW.AUS.OC	PGP 2.3
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Date: Tue, 22 Feb 1994 04:14:06 GMT

From: elroy.jpl.nasa.gov!swrinde!gatech!europa.eng.gtefsd.com!library.ucla.edu!
csulb.edu!csus.edu!netcom.com!wylz@ames.arpa

Subject: Satellite progs on World

To: ham-space@ucsd.edu

I have now placed some satellite tracking programs on World:

- stsplus.zip
- stsortbit.zip
- traksat {trak300a.zip & trak300b.zip} (latest version of traksat)

They are available via anonymous FTP via

ftp ftp.std.com:/pub/hamradio/pc/satellite

If you have any problems, questions, or comments, please e-mail them to me.

I tried very hard to search for stsplus through many archie searches, and only found one site which carried it. I hope that by making it available on World it will be easier to obtain.

73,

Scott, WY1Z

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|   Maintainer of the Boston Amateur Radio Club hamradio FTP area on   |
|           the World - ftp.std.com  pub/hamradio           |
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End of Ham-Space Digest V94 #37
